

GAS IMPERMEABLE TUBE JOINT AND METHOD OF FORMING SAME

ABSTRACT

A method of forming a gas impermeable joint in a fluid system includes: providing a tube having a metallic barrier layer disposed between an inner plastic layer and an outer plastic layer; forcing at least one of the inner plastic layer and the outer plastic layer into contact with a plastic surface of a component; and welding the at least one of the inner plastic layer and the outer plastic layer with the plastic surface to form the gas impermeable joint. The welding may include: spin welding, hot plate welding, vibration welding, and ultrasonic welding. The metallic barrier layer extends substantially to the component, thus improving the gas impermeability of the joint between the tube and the component.

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